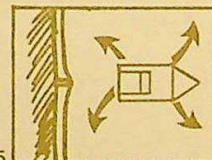
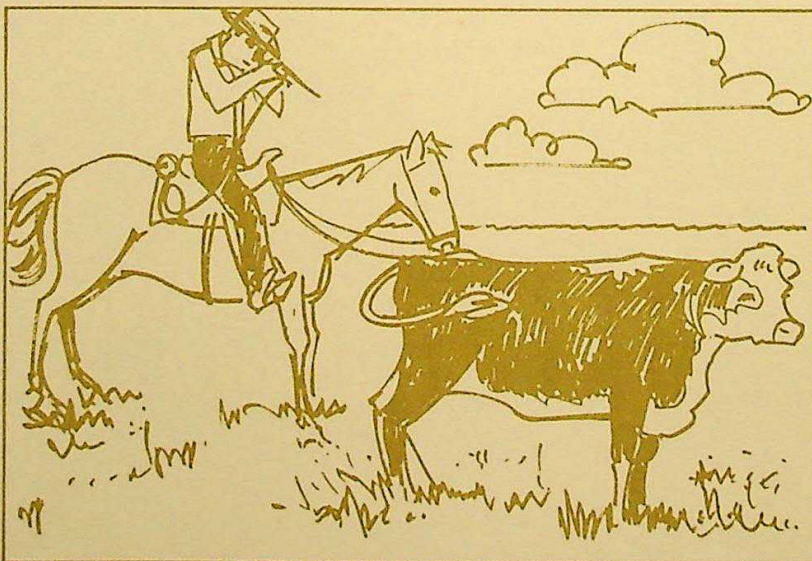
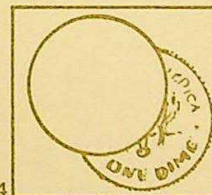
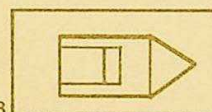
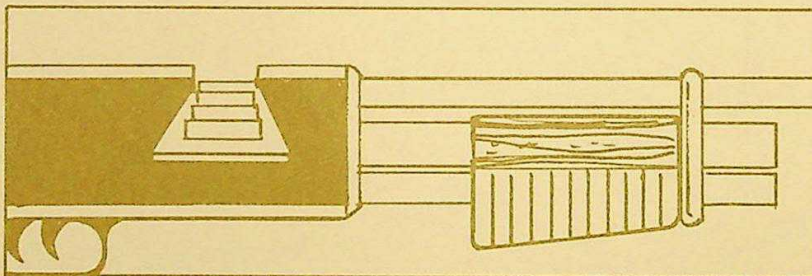
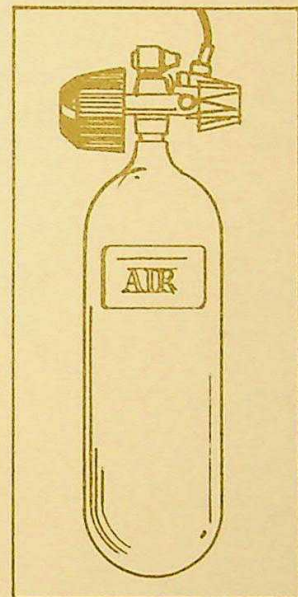
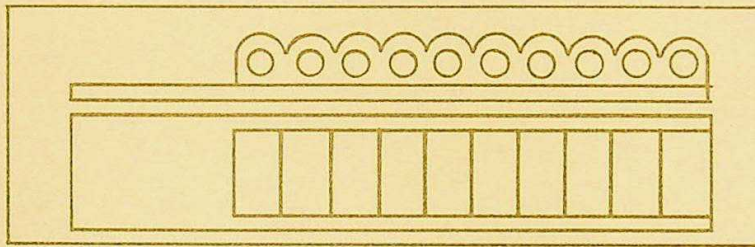
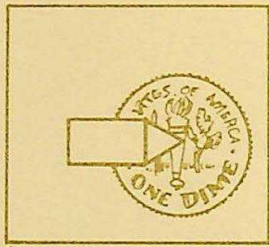
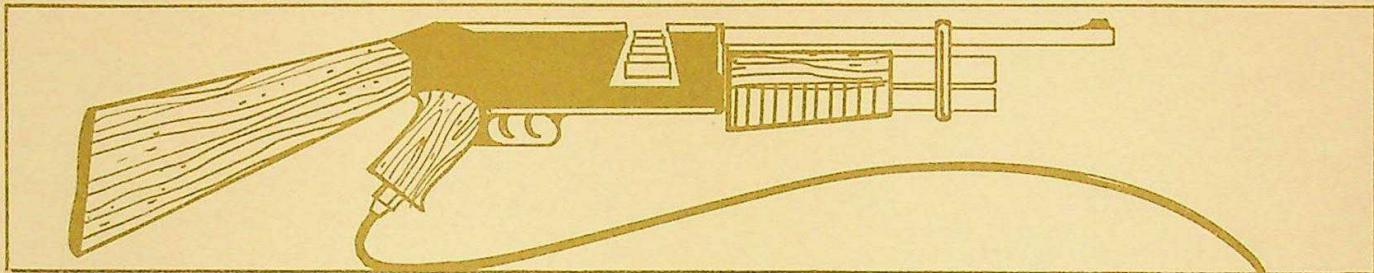


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3M BRAND Long Range Vaccination System



- 1 Implant, actual size
- 2 Implant clips
- 3 Cross section of implant
- 4 Marker ball, actual size
- 5 Implant in muscle releasing vaccine and dissolving
- 6 Temporary mark from marker-ball

3M Company has developed an entirely new technique for treating and vaccinating cattle. The technique is a long range delivery system in which an implant is delivered at high speed from an air-powered gun. The system is at an advanced research stage, and we would like to introduce you to its features and advantages now.

The implant tool or air gun looks like and weighs about the same as a pump-action shotgun. The gun has two barrels. The top barrel fires an implant bullet carrying a vaccine or medication. The lower barrel fires a paint ball for identification of treated animals.

Implant bullets are sealed in a sterile, disposable clip of ten bullets. The seal is broken as each bullet enters the barrel. Remaining bullets stay sealed and uncontaminated until used.

The marker ball makes a highly visible fluorescent orange splatter, regardless of the animal's color. Marker balls are packaged ten to a tube to match the bullet clip.

The gun is powered by compressed air from a small cylinder which is attached to the gun by a flexible hose. A full cylinder fires 450 bullets and marker balls.

The 3M Long Range Vaccination System appears to have these advantages:

The implant produces a true intra-muscular injection which eliminates the possible problems of shallow injections and broken needles.

The sterile clip and unit dose implant eliminate the possibility of transfer of disease within the herd during processing.

The implant is a unit dose, instantly ready for use; therefore, there is no chance for error in adding diluent or reconstituting vaccine. Better stability of vaccines is another advantage.

The 3M Long Range Vaccination System makes treatment easy and effective.

Round up and separation are not necessary. Cattle can be vaccinated where they stand.

Booster vaccinations are a particularly easy task.

Treatment at the time or age recommended by the veterinarian is simplified.

Ease of handling allows the operator to fire the implant from horseback, truck, helicopter, or stationary shooting platform.

Manpower and time saving, coupled with the reduction of stress to the animal and dollar loss, are the major benefits offered by the 3M Long Range Vaccination System.

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New Business Ventures Division **3M**
3M CENTER • SAINT PAUL, MINNESOTA 55101